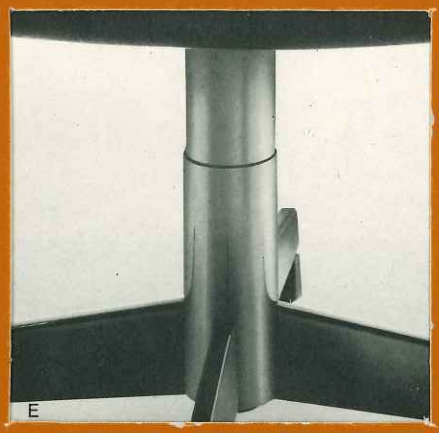
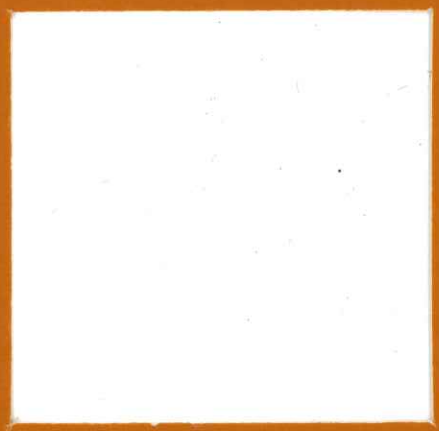
XD 6/366
SEPT. 15, 1970

451 Features





A. Cushioning. The high-strength, one-piece inner shell is covered with firm density polyurethane foam, then topped with a 2½" thick layer of resilient padding. This soft-sitting combination is dense and smooth, right to the edge of the chair — even wraps around the front. No-shift padding stays smooth, won't lump.

B. Tufting. The gentle curves created by button tufting add accent lines to the chair and suggest deep, plush comfort. Tufting enriches the appearance of soft leathers and other upholstery materials and helps to create stress lines that keep looking better the more the chair is used.

C. Shell Trim. Trim channel of smoky-hued polyvinylchloride completely surrounds the outer shell, provides a soft accent "edging", and protects both chair and desk against nicks, mars.

D. Armrests. Gracefully tapered and curved to blend with the contour of the chair, armrests are made of matte-finish phenolic plastic with a steel reinforcing bar which is firmly bolted to inner shell. Mar-resistant and smooth to the touch. Smart ebony color complements any upholstery selection.

E. Telescoping Bell Housing. Tube within a tube design provides smooth, uncluttered look and covers threaded post. The housing has a 3½" adjustment range and its slim, trim silhouette provides a feeling of strength.

F. Swivel-tilt Mechanism. This very compact mechanism (takes less space than those used on other swivel-tilt chairs) is in keeping with the trim shell design. Provides the normal 18° tilt, operates silently and smoothly.

G. Tapered Casters. Clean and uncluttered design makes casters less conspicuous. Slim profile, tapered rubber wheels and one-piece wheel housing. Smooth wheel has no unsightly ridges and is only ½" across. Rivet for holding wheel is hidden within housing . . . no exposed flanged ends.

H. Base. Welded steel base is slim and graceful as well as strong. No sharp corners. All welds are buffed and polished before plating. Nylon hub tube in swivel models prevents noise and wear. Fixed base models have stainless steel glides. Finishes: brushed, polished chrome or Ember Chrome.

I. Outer shell. Made of scratch and impact-resistant polypropylene, the graceful one-piece shell is available in Slate or Dark Gold finishes that are slightly textured. Deep contour provides a pocket of cushioning in seat and back.

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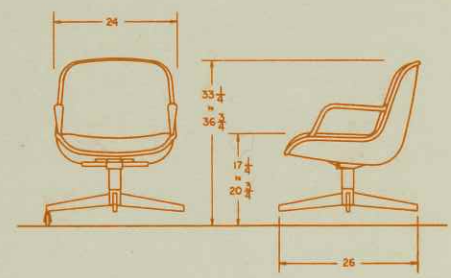
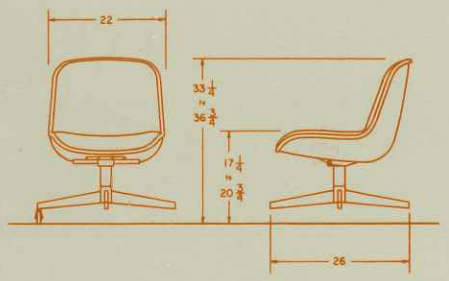


451-312T Swivel Tilt with arms

Seat width 21¾″
Seat depth 17¼″
Back width 21″
Back height 17¾″
Width between arms 20″
Seat and back widths are
based on median dimension.

P. 1

STEELCASE

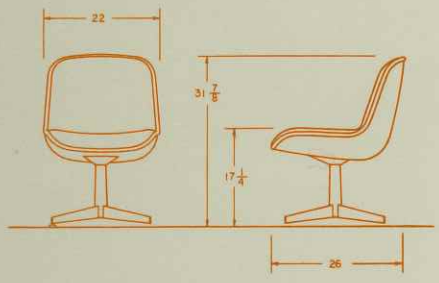


451-310 Swivel Tilt

Seat width 20¾″
Seat depth 17¼″
Back width 20⅜″
Back height 17¾″
Seat and back widths are
based on median dimension.

3

STEELCASE

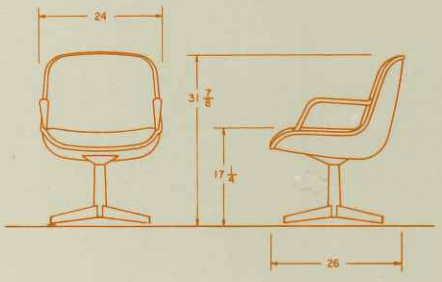


451-320 Swivel

Seat width 20¾″
Seat depth 17¼″
Back width 20⅜″
Back height 17¾″
Seat and back widths are
based on median dimension.

5

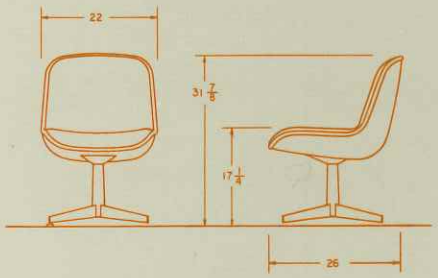
STEELCASE



451-322T Swivel with arms

Seat width 21¾″
Seat depth 17¼″
Back width 21″
Back height 17¾″
Width between arms 20″
Seat and back widths are
based on median dimension.

STEELCASE

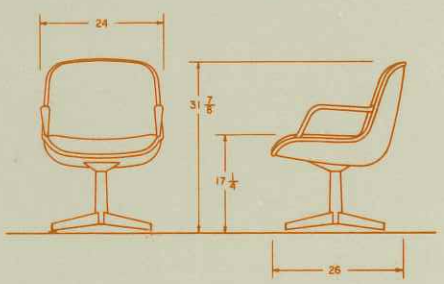


451-330 Return Swivel

Seat width 20¾"
Seat depth 17¼"
Back width 20⅜"
Back height 17¾"
Seat and back widths are
based on median dimension.

451

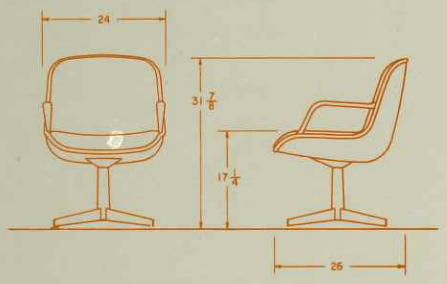
STEELCASE



451-332 Return Swivel with arms

Seat width 21¾″
Seat depth 17¼″
Back width 21″
Back height 17¾″
Width between arms 20″
Seat and back widths are
based on median dimension.

STEELCASE



451-412 Fixed Base with arms

Seat width 21¾″
Seat depth 17¼″
Back width 21″
Back height 17¾″
Width between arms 20″
Seat and back widths are
based on median dimension.

STEELCASE
Brochure
Recd. 9-15-1970

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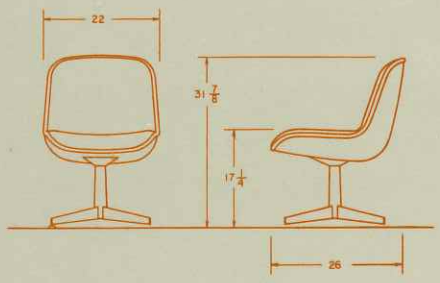
451

STEELCASE



451-410 Fixed Base

Seat width 20¾"
Seat depth 17¼"
Back width 20⅜"
Back height 17¾"
Seat and back widths are based on median dimension.

Steelcase Brochure Rec'd. 9-15-1970

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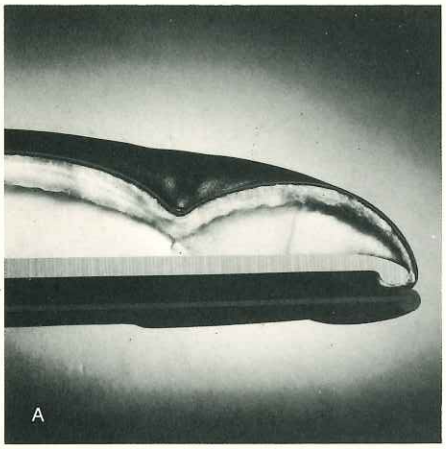
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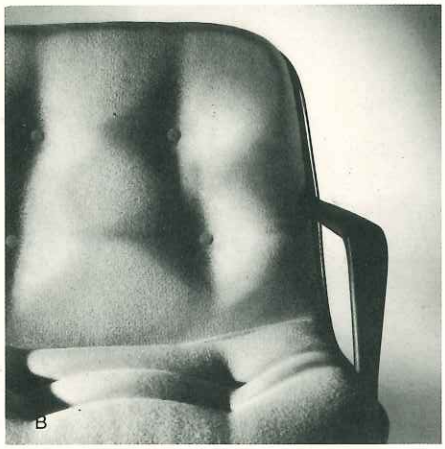
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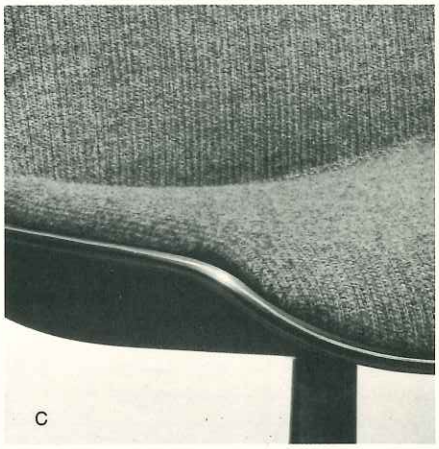
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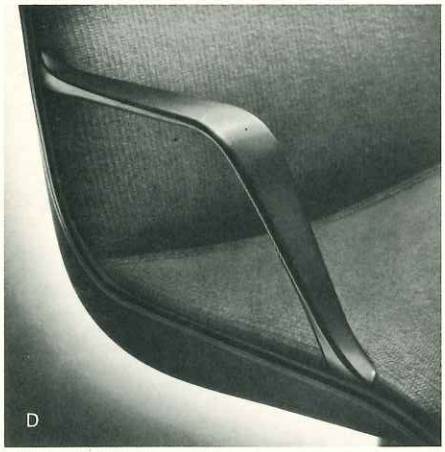
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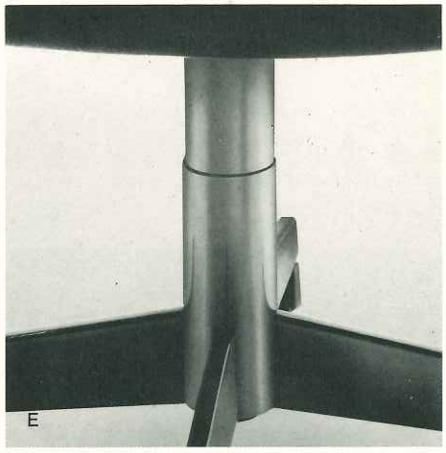
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F

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I

451 Series Specifications

Model No.	Description	Width Between Arms	SEAT			BACK		OVERALL CHAIR DIMENSIONS		
			Width	Depth	Height Adjustment From Floor	Width	Height	Height	Width	Depth
451-312	Swivel-tilt w/arms	20″	21¾″	17¼″	17¼″-20¾″	21″	17¾″	33¼″-36¾″	24″	26″
451-310	Swivel-tilt w/o arms	—	20¾″	17¼″	17¼″-20¾″	20⅜″	17¾″	33¼″-36¾″	22″	26″
451-322	Swivel w/arms	20″	21¾″	17¼″	17¼″	21″	17¾″	31⅞″	24″	26″
451-320	Swivel w/o arms	—	20¾″	17¼″	17¼″	20⅜″	17¾″	31⅞″	22″	26″
451-332	Return Swivel w/arms	20″	21¾″	17¼″	17¼″	21″	17¾″	31⅞″	24″	26″
451-330	Return Swivel w/o arms	—	20¾″	17¼″	17¼″	20⅜″	17¾″	31⅞″	22″	26″
451-412	Fixed Base w/arms	20″	21¾″	17¼″	17¼″	21″	17¾″	31⅞″	24″	26″
451-410	Fixed Base w/o arms	—	20¾″	17¼″	17¼″	20⅜″	17¾″	31⅞″	22″	26″

Upholstery Materials

The 451 Series chair is available in any Steelcase fabric, expanded vinyl (not elastic vinyl), Continental Soft leather or customer's own material . . . button tufted or plain.

Button tufts and seam between seat and back, contribute to the graceful line of the chair. Both are permanently anchored by sewing through pre-drilled holes in the inner shell and are firmly secured on other side. Tufted chairs have four buttons each in seat and back. Stress lines created by buttons introduce a pleasing pattern to seat and back.

The 451s are especially effective with any one of the new Regis 100% nylon fabric colors and Ember Chrome base. Continental Soft leathers are offered in five colors, each muted to reveal the natural beauty of the leather.

Fabrics are color-related to vinyls so they may be used in striking combinations in a single office. They were also fashioned to blend perfectly with decorator colors selected by leading architects and designers for contemporary office buildings.

Steelcase materials are fade-resistant and long-wearing. Most are backed with a rubberized acrylic to assure wrinkle-free tailoring and to minimize static electricity. Steelcase tests prove ease of cleaning . . . from vinyls that require only damp-cloth wiping, to fabrics that respond well to periodic professional cleaning as well as quick spot removal.

STEELCASE PRICE LIST 106-1
EFFECTIVE OCTOBER 1, 1970

451 SERIES

DOUBLE-SHELL CHAIRS

SPECIFIC INFORMATION

The 451 Series combines sophisticated design and luxurious comfort with modest pricing and built-to-last construction.

A unique Double-Shell cushioned with soft fiberfill padding over various densities of foam in the shoulder, back and seat areas, produce a series that is functionally right . . . contoured to the human body to provide lasting comfort and support.

Available with button-tufted or plain upholstery, this grouping complements any contemporary management or general office setting and coordinates well with all Steelcase contemporary furniture.

Construction

Cushions contain medium and firm-density urethane foam in the seat . . . medium-firm density in the lumbar region . . . softer density in the shoulder area . . . all covered with a layer of fiberfill padding. Cushions are attached to a strong, rigid inner shell of expanded polystyrene which provides complete body support. The inner shell is covered with an impact resistant outer shell of injection molded polypropylene, giving the chair its distinctive shape and appearance. The outer shell has a slightly textured, non-glare surface which resists marring.

NOTE: When ordering, please specify the outer shell surface in either #6201 Dark Gold or #6202 Slate finish.

A smoke-color, polyvinylchloride trim channel is attached to the rim of the outer shell, covering the entire perimeter of the chair, for protection against bumping damage.

Upholstery

Available in any Steelcase fabric, Expanded Vinyl or Continental Soft Leather . . . button-tufted or plain (Buttonless tufting not available). Customer supplied materials must be approved by Steelcase.

Armrests

Armrests are molded phenolic plastic, reinforced with a solid steel bar, available in matte-finish ebony color only.

Bases

All models have pedestal bases standard in #9201 polished chrome; #9202 brushed chrome optional at no extra charge; #9250 Ember Chrome optional at extra charge.

Swivel chairs have a telescoping bell which conceals the chair spindle at any height.

Casters

Caster base chairs are standard with new thin-line casters, with 2″ soft rubber wheels in finishes that are compatible with the base ordered.

2″ conventional casters with soft rubber or hard composition wheels are available at no extra charge. 2½″ conventional casters with soft rubber or hard composition wheels are available at an additional charge of $1.50 per chair.

Shepherd ball or profile casters are also available, factory installed, at an additional charge of $12.50 per chair for #9201 polished or #9202 brushed chrome $17.00 per chair for #9250 Ember Chrome.

Glides

Furnished with adjustable, stainless steel glides 1 1/16″ in diameter.

451 SERIES CHAIRS

	DESCRIPTION	STYLE NUMBER	FINISH	EXPANDED VINYL	C.O.M. NYLORAY REGIS
	Swivel-tilt chair without arms.	451-310	Polished or Brushed Chrome Ember Chrome	$159.00 165.50	$163.00 169.50
	As above with tufted upholstery.	451-310T	Polished or Brushed Chrome Ember Chrome	170.00 176.50	174.00 180.50
	Swivel-tilt chair with arms.	451-312	Polished or Brushed Chrome Ember Chrome	180.00 186.50	184.00 190.50
	As above with tufted upholstery.	451-312T	Polished or Brushed Chrome Ember Chrome	191.00 197.50	195.00 201.50
	Side chair without arms. Swivel base.	451-320	Polished or Brushed Chrome Ember Chrome	143.00 149.50	147.00 153.50
	As above with tufted upholstery.	451-320T	Polished or Brushed Chrome Ember Chrome	154.00 160.50	158.00 164.50

DANI, SCANDI, AZTEC, NYRON, NYLOWEAVE	CONTINENTAL SOFT LEATHER	PACKED WEIGHT	OVERALL			SEAT		BACK		WIDTH BETWEEN ARMS	SEAT ADJUSTMENT FROM FLOOR
			HEIGHT	WIDTH	DEPTH	WIDTH	DEPTH	WIDTH	HEIGHT		
$173.50 180.00	$211.00 217.50	41	33¼″ to 36¾″	22″	26″	20¾″	17¼″	20⅜″	17¾″	N.A.	17¼″ to 20¾″
184.50 191.00	222.00 228.50	41	33¼″ to 36¾″	22″	26″	20¾″	17¼″	20⅜″	17¾″	N.A.	17¼″ to 20¾″
194.50 201.00	232.00 238.50	49	33¼″ to 36¾″	23¼″	26″	21¾″	17¼″	21″	17¾″	20″	17¼″ to 20¾″
205.50 212.00	243.00 249.50	49	33¼″ to 36¾″	23¼″	26″	21¾″	17¼″	21″	17¾″	20″	17¼″ to 20¾″
157.50 164.00	195.00 201.50	35	31⅞″	22″	26″	20¾″	17¼″	20⅜″	17¾″	N.A.	17¼″
168.50 175.00	206.00 212.50	35	31⅞″	22″	26″	20¾″	17¼″	20⅜″	17¾″	N.A.	17¾″

451 SERIES CHAIRS

	DESCRIPTION	STYLE NUMBER	FINISH	EXPANDED VINYL	C.O.M. NYLORAY REGIS
	Side chair with arms, swivel base.	451-322	Polished or Brushed Chrome Ember Chrome	$164.00 170.50	$168.00 174.50
	As above with tufted upholstery.	451-322T	Polished or Brushed Chrome Ember Chrome	175.00 181.50	179.00 185.50
	Side chair without arms, return swivel base.	451-330	Polished or Brushed Chrome Ember Chrome	148.00 154.50	152.00 158.50
	As above with tufted upholstery.	451-330T	Polished or Brushed Chrome Ember Chrome	159.00 165.50	163.00 169.50
	Side chair with arms, return swivel base.	451-332	Polished or Brushed Chrome Ember Chrome	170.00 176.50	174.00 180.50
	As above with tufted upholstery.	451-332T	Polished or Brushed Chrome Ember Chrome	180.00 186.50	184.00 190.50

DANI, SCANDI, AZTEC, NYRON, NYLOWEAVE	CONTINENTAL SOFT LEATHER	PACKED WEIGHT	OVERALL			SEAT		BACK		WIDTH BETWEEN ARMS	SEAT ADJUSTMENT FROM FLOOR
			HEIGHT	WIDTH	DEPTH	WIDTH	DEPTH	WIDTH	HEIGHT		
$178.50 185.00	$216.00 222.50	44	31⅞″	24″	26″	21¾″	17¼″	21″	17¾″	20″	17¼″
189.50 196.00	227.00 233.50	44	31⅞″	24″	26″	21¾″	17¼″	21″	17¾″	20″	17¼″
162.50 169.00	200.00 206.50	35	31⅞″	22″	26″	20¾″	17¼″	20⅜″	17¾″	N.A.	17¼″
173.50 180.00	211.00 217.50	35	31⅞″	22″	26″	20¾″	17¼″	20⅜″	17¾″	N.A.	17¼″
184.50 191.00	222.00 228.50	44	31⅞″	24″	26″	21¾″	17¼″	21″	17¾″	20″	17¼″
194.50 201.00	232.00 238.50	44	31⅞″	24″	26″	21¾″	17¼″	21″	17¾″	20″	17¼″

451 SERIES CHAIRS

	DESCRIPTION	STYLE NUMBER	FINISH	EXPANDED VINYL	C.O.M. NYLORAY REGIS
	Side chair without arms, fixed base.	451-410	Polished or Brushed Chrome Ember Chrome	$138.00 144.50	$142.00 148.50
	As above with tufted upholstery.	451-410T	Polished or Brushed Chrome Ember Chrome	148.00 154.50	152.00 158.50
	Side chair with arms, fixed base.	451-412	Polished or Brushed Chrome Ember Chrome	159.00 165.50	163.00 169.50
	As above with tufted upholstery.	451-412T	Polished or Brushed Chrome Ember Chrome	170.00 176.50	174.00 180.50

DANI, SCANDI, AZTEC, NYRON, NYLOWEAVE	CONTINENTAL SOFT LEATHER	PACKED WEIGHT	OVERALL			SEAT		BACK		WIDTH BETWEEN ARMS	SEAT ADJUSTMENT FROM FLOOR
			HEIGHT	WIDTH	DEPTH	WIDTH	DEPTH	WIDTH	HEIGHT		
$152.50 159.00	$190.00 196.50	35	31⅞″	22″	26″	20¾″	17¼″	20⅜″	17¾″	N.A.	17¼″
162.50 169.00	200.00 206.50	35	31⅞″	22″	26″	20¾″	17¼″	20⅜″	17¾″	N.A.	17¼″
173.50 180.00	211.00 217.50	44	31⅞″	24″	26″	21¾″	17¼″	21″	17¾″	20″	17¼″
184.50 191.00	222.00 228.50	44	31⅞″	24″	26″	21¾″	17¼″	21″	17¾″	20″	17¼″